Morning Session

Session Start

- ❑ Review course objectives
  - We will learn the following:
    - Instrument geometry
    - Equipment setup and serial interfacing
    - Launching the software; selecting startup configurations
    - Mastering the data hierarchy: parent/child relationships
    - Creation and maintenance of standards
    - Sampling techniques
    - Screen and data manipulation and interpretation
    - Advanced standard / sample data manipulation: notes, tags, etc.
    - Screen customizations
    - Importing / exporting / transferring /printing
    - Managing a QA2000 server / networking
    - Passwords and security options
    - How and when to backup the database!
    - Final test
    - Course evaluation
    - Dismiss

Instrument Geometry

- ❑ A discussion of instrument geometries (which are used for what?)
  - 0/45's
  - 45/0's
  - Sphere's
    - SPIN
    - SPEX
  - MA's
    - 3 angle (50 series)
    - 5 angle (60 series)

Interfacing

- ❑ Interfacing instruments to PC's
  - o Com Ports (as opposed to USB's & parallel's & such)
  - o Bits, baud, & handshake
  - o Cabling / adaptors / POWER SUPPLIES!!!
  - o Instrument I/O options

Setting up the equipment

- ❑ Equipment setup / launch software
  - o Troubleshooting communication problems

Exercise 1 – Setup workstations and assure communication

Begin X-RiteColor® Master QA Master I instruction

- ❑ Selecting a database (remember geometry?)

- ❑ Calibrating the instrument(s)
  - o How, when, where, why
  - o Warnings, caveats, verifying your success
  - o Instrument maintenance and regular certification

X-RiteColor® Master hierarchy & data relationships

- ❑ Who depends on what and why!
  - o Customers
    - ▪ Standards
      - Tolerances
        - o What's possible?
      - Samples

- ❑ Organizing your standards for greatest efficiency
  - o Network considerations
    - ▪ One "folder" or many & why?

Creation of a "Customer"

Exercise 2 – Creating a customer

Creation of Standards

- ❑ Think before you start
  - o Illuminants & Observers
  - o Colorimetric functions & tolerancing methods

- ❑ Running the Wizard
  - o Explanation of the assorted options
    - ▪ Manual, measured, copy/paste, etc…
  - o To average or not to average
  - o Establishing tolerances
    - ▪ Setting system defaults
      - • Implications if you later change your mind
  - o What is 555?
  - o Proving repeatability
    - ▪ Sample preparation, presentation, & preservation!!!

Exercise 3 – Creating standards

Exercise 4 – Creating standards

Measuring Samples

- ❑ Measuring
  - o Explanation of the assorted options
    - ▪ Manual, measured, contrast ratio, copy/paste, etc…
  - o To average or not to average
  - o Proving repeatability
    - ▪ Sample preparation, presentation, & preservation!!!

Exercise 5 – Measuring samples

Exercise 6 – Creating standards

Exercise 7 – Measuring samples

Playing with the Screens – Data Interpretation

- ❑ View options, right-mouse functions; designing your workspace
  - o Trend views
  - o Tolerance views
    - ▪ Pass / Fail
    - ▪ L*a*b*, L*C*h°, $CMC_{2:1}$, etc.
    - ▪ Mouse over function
  - o Managing the "Control Panel"
    - ▪ User defined control options
  - o Densitometric options
  - o Creating View Sets

Exercise 8 – Creating a view

Using a Portable Instrument

- ❑ Downloading standards to the instruments
  - o What gets sent down the wires
  - o Taking remote measurements
  - o How is this useful?
  - o What is the instrument telling me?
    - ▪ Viewing the collected data
  - o Advanced download options
    - ▪ Auto-selecting standards
    - ▪ Projects & Jobs (selected instruments ONLY)
  - o Caveats - - DO ONLY WHILE POWERED FROM AC ADAPTOR!

Exercise 9 – Downloading standards & measuring remotely

- Uploading collected samples
  - Notes & Tags & Stuff
  - Where does the data go?
  - Caveats - - DO ONLY WHILE POWERED FROM AC ADAPTOR!
  - Viewing your remote data

Exercise 10 – Uploading standards to the software

Projects

- Creating projects
  - Adding standards to a new project
  - Modifying existing projects

Exercise 11 – Creating a project

- Measuring samples in Project mode
  - Auto tagging
  - Auto filtering
  - Standard selection
    - Auto
    - List
    - Default

Notes, Lot ID, & Tagging Exercises

- Using the power of Notes, Lot ID, and Tags to identify and select data
  - Adding notes
  - Adding Lot ID
    - Searching for Lot ID
  - Adding Tags
  - Colored Tag Plots

Exercise 12 – Using Colored Tag Plots

Filtering your data

- ❑ Using the power of Notes, Lot ID, and Tags to identify and select data
  - By Tags
  - By Date, Time
  - By Color
  - By Customer
  - By Accept / Reject Status
  - By all of the above at the same time!

Exercise 13 – Creating and using filters

Advanced Standard Manipulation

- ❑ Alternate Standards
  - o Copy/paste, average the current set, manual entry, etc.
  - o Using standard descriptions
    - Versioning of standards

- ❑ Advanced tolerancing tools
  - o Multiple tolerances
  - o Visually editing tolerances
    - Using "Accept / Reject"
  - o Multiple tolerancing
    - Instrument caveats – download 1st only

Cool Stuff – Customizing the Toolbar

Managing your Data

- ❑ Transfer Out
  - o Data transfer formats
    - ▪ What's in a MIF?
    - ▪ What's an XTF?
    - ▪ Why two types?
    - ▪ Software compatibility issues!!!
  - o Filtering the transferred data
    - ▪ Remember Notes & Tags & Stuff
  - o What can I transfer?
    - ▪ Standards ONLY
    - ▪ Standard (singular) & Samples
    - ▪ Lots of Standards & Samples at the same time

Exercise 14 – Transfer data out

- ❑ Transfer In
  - o Adding tags to the incoming data
  - o Updating (or not) existing standards & customers

Exercise 15 – Transfer data back in

- ❑ Backups – Here's a chance to preserve all your hard work

Exercise 16 – Backup your data

- ❑ Restore Backups – What do you do if there is a problem

Exercise 17 – Restore your data

- Exporting
  - CSV (Character Separated Values)
  - How can this be used?
  - Export options…

Exercise 18 – Exporting data

- Printing
  - Standard report formats
    - Screen Grabs
      - Caveats - -Video drivers & such
    - General
    - Conformance
    - Complete
  - Custom reporting
    - Crystal reports (not supplied)

- ColorMail

Exercise 19 – Create a ColorMail package

- Using the "**Xadmin**" utility (Options \ Administrative)
  - Database permissions
    - Who can do what, when, and where!
  - Database management
    - The REAL Backup tools!!!!!!!!
    - Repair kit
    - Creating and importing (more) databases
  - User management
    - User names and passwords
    - Caveat – Original password is "password"
    - Auto-tag feature using User Name!
  - Logging on to a secure QA2000 system

Final Exercise – Review of topics learned

Wrap-up

- Getting HELP from X-Rite
  - Use the web:
    http://www.xrite.com/contact/ContactUs.asp
  - Send E-Mail to:
    mailto:CASupport@xrite.com
  - Try the Bulletin Board:
    http://www.xrite.com/helpdesk/bulletinboard.asp
  - Contact Customer Service by phone:
    888-826-3042 (US & Canada only)
  - Send a Fax to:
    616-534-0723